SEQUENCE LISTING

Vega MASIGNANI <110> <120> ADP-RIBOSYLATING TOXIN FROM LISTERIA MONOCYTOGENES <130> PP020009.0003 <140> PCT/IB2004/001440 <141> 2004-04-08 <150> GB0308198.1 <151> 2003-04-09 <160> <170> SeqWin99, version 1.02 <210> 604 <211> <212> PRT <213> Listeria monocytogenes <400> Met Lys Glu Val Asn Tyr Arg Glu Asp Asp Trp Arg Glu Ala Lys Ser Ala Leu Ala Pro Phe Ala Ala Asn Trp Val Gly Gly Leu Phe Asn Asn Leu Glu Lys Val Ser Lys Asn Met Glu Glu Ala Glu Glu Asp Val Gln Glu Leu Asp Ser Asp His Ala Ile Ser Phe Gln His Thr Asn Tyr Arg Gly Lys Tyr Ser Ala Ile Glu Asp Asp Leu Met Val Leu Tyr Lys 70 Phe Ser Cys His Ala Gly Glu Lys Met Glu Thr Leu Val Asp Gln Pro Phe Tyr Glu Lys Leu Asp Ala Phe Val Asp Gly Met Gln Asp Leu Ser 100 . 105 Ile Ser Thr Tyr Ser Thr Thr Asn Arg Ile Gly Ala Lys Ser Lys Gln Thr Tyr Thr Thr Ser Gly Gly Ser Gln Val Ile Glu Ser Ile Lys 135 Glu Gly Ala Thr Ile Glu Asp Leu Met Asn Gly Asp Asn Phe Tyr Ala Asn Gln Met Gln Leu Gln Tyr Arg Asp Trp Gln Arg Ala Asn Pro Asp 170 Gln Asp Val Ser Lys Lys Asp Phe Gln Met Gly Met Leu His Ser Arg

Ala Phe Glu Tyr Lys Ser Ile Lys Asp Glu Gln Glu Lys Glu Phe 195 200 205

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- Ser Thr Glu Glu Arg Ala Leu Arg Gly Gly Leu Ala Leu Leu Asp Ile 260 265 270
- Val Pro Gly Val Lys Ala Leu Ser Thr Gly Ala Lys Ala Ala Ser Ala 275 280 285
- Gly Ser Lys Leu Val Arg Val Gly Asp Asn Val Leu Ala Gly Ser Lys 290 295 300
- Asn Val Gly Lys Gly Thr Ile Asp Asn Gly Ile Gln Ala Gly Lys Gln 305 310 315 320
- Ala Met Asp Leu Arg Leu Ala Asn Ala Lys Lys Val Ser Glu Ala Val 325 330 335
- Gln Lys Lys Leu Thr Lys Asp Leu Asp Asp Ile Gly Thr Met Ala Lys 340 345 350
- Thr Ile Gln Asn Lys Thr Lys Glu Thr Phe Thr Leu Pro Pro Arg Glu 355 360 365
- Gln Leu Ala Phe Ala Arg Gly Gly Ser Ile Pro Glu Gln Ser Ala Thr 370 375 380
- Gly Ala Ala Ile Ala Ala Lys Lys Leu Lys Asp Ile Met Gln 385 390 395 400
- Asn Met Asp Asn Leu Asn Val Lys Gly Gly Gly Lys Asp Asp Ile Ile 405 410 415
- Glu Gln Asn Lys Ser Leu Lys Phe Thr Ser Leu Glu Glu Ser Glu Lys 420 425 430
- Trp Gly Ile Asp Gly Phe Ser Val Trp Arg Asn Ser Leu Ser Ser Arg 435 440 445
- Glu Ile Gln Ala Ile Arg Asp Tyr Thr Asp Ile Trp His Tyr Gly Asn 450 455 460
- Met Asn Gly Tyr Leu Arg Gly Ser Val Glu Lys Leu Ala Pro Asp Asn 465 470 475 480
- Ala Glu Arg Ile Lys Asn Leu Ser Ser Ala Leu Glu Lys Ala Glu Leu
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- Pro Asp Asn Ile Ile Leu Tyr Arg Gly Thr Ser Ser Glu Ile Leu Asp 500 505 510
- Asn Phe Leu Asp Leu Lys Asn Leu Asn Tyr Gln Asn Leu Val Gly Lys 515 520 525
- Thr Ile Glu Glu Lys Gly Phe Met Ser Thr Thr Thr Ile Ser Asn Gln 530 535 540

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Phe Ser Cys His Ala Gly Glu Lys Met Glu Thr Leu Val Asp Gln Pro 85 90 95

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Thr Tyr Met Ser Ser Tyr Gly Asn Gln Pro Gln Val Ile Glu Ser Val 130 135 140

Lys Asp Asn Ala Thr Ile Glu Asp Leu Leu Asn Gly Asp Asn Phe Tyr 145 150 155 160

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Asn Gln Asp Val Ser Lys Lys Asp Phe Gln Met Gly Met Leu His Ser 180 185 190

Arg Val Phe Glu Tyr Lys Ser Ile Lys Asp Glu Gln Glu Lys Glu 195 200 205

Phe Trp Val Asn Ile Val Ala Thr Val Val Ile Val Gly Val Ser Ile 210 215 220

Phe Cys Pro Pro Ala Gly Leu Ala Leu Ala Val Gly Tyr Gly Ser Leu 225 230 235 240

Glu Ala Gly Ser Ala Ile Ser Gly Lys Asp Trp Val Ser Gly Arg Glu 245 250 255

Leu Ser Thr Glu Glu Arg Ala Leu Arg Gly Gly Leu Ala Leu Leu Asp 260 265 270

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